

Docket No.: 71109-014

PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of	:	Customer Number: 20277
Nick CAMPBELL, et al.	:	Confirmation Number: Not yet assigned
Application No.: Not yet assigned	:	Group Art Unit: Not yet assigned
Filed: November 15, 2004	:	Examiner: Not yet assigned

For: SYLLABIC NUCLEI EXTRACTING APPARATUS AND PROGRAM PRODUCT THEREOF

**INFORMATION DISCLOSURE STATEMENT**

Honorable Commissioner for Patents and Trademarks  
Washington, D. C. 20231

Sir:

In accordance with the provisions of 37 C.F.R. 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached form PTO-1449. It is respectfully requested that the references be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is being filed with the application and no certification or fee is required.

A copy of the foreign search report is attached for the Examiner's information. Please note this is a PCT application in the entry of the National Phase in the U.S. and copies of the references cited were transmitted by WIPO and are believed to be in the file of the above identified application and readily available to the Examiner. Therefore it is believed that Applicants have met all requirements regarding duty of disclosure under 37

CFR 1.56. Acknowledgement and consideration of these documents are respectfully requested.

A copy of the foreign search report is attached for the Examiner's information.

Please note this is a PCT application in the entry of the National Phase in the U.S.

However, to ensure that these references are available to the Examiner, we are providing copies of these references herewith. Since the Search Report was from the U.S. JPO or EPO search authorities, copies of these references should have been supplied to the USPTO under the trilateral agreement and are believed to be in the file of the above identified application and readily available to the Examiner.

Respectfully submitted,

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**Please recognize our Customer No. 20277  
as our correspondence address.**

<b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>  <b>(PTO-1449)</b>				ATTY. DOCKET NO. <b>71109-014</b>		SERIAL NO. <b>Not yet assigned</b> <div style="font-size: 1.5em; font-weight: bold;">10/514413</div>	
				APPLICANT <b>Nick CAMPBELL, et al.</b>			
				FILING DATE <b>November 15, 2004</b>		GROUP <b>Not yet assigned</b>	
<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER'S INITIALS	CITE NO.	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
		US 2002/0061955 A1	05-02-2002	Okutani et al.			
<b>FOREIGN PATENT DOCUMENTS</b>							
EXAMINER'S INITIALS	CITE NO.	Foreign Patent Document Country Code <sup>3</sup> -Number 4-Kind Codes (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Figures Appear	Translation	
						Yes	No
		JP 1-244499	09-28-1989	TOSHIBA CORP		JAPAN (w/English Abstract)	
		JP 10-260697	09-29-1998	MATSUSHITA ELECTRIC IND CO LTD		JAPAN (w/English Abstract)	
		JP 2001-306087	11-02-2001	RICOH CO LTD		JAPAN (w/English Abstract)	
		JP 2001-282277	10-12-2001	CANON INC		JAPAN (w/English Abstract)	
<b>OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
EXAMINER'S INITIALS	CITE NO.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.					
		M. FUJIMOTO, et al. "Support System for Speech Segment Extraction" A-14, General Conference of the Institute of Electronics, Information and Communication Engineers, Spring 1989, pp. 14					
		J. SUNDBERG "The Science of the Singing Voice" Northern Illinois University Press, Dekalb, Illinois, 1987, pp. 74-89					
		P. ALKU, et al. "Amplitude domain quotient for characterization of the glottal volume velocity waveform estimated by inverse filtering" Speech Communication, 18(2), pp. 131-138					
		D. HERMES "Measurement of pitch by subharmonic summation", J. Acoust. Soc. Am. 83 (1), pp. 267-264					
		P. MERMELSTEIN "Automatic segmentation of speech into syllabic units", J. Acoust. Soc. Am. 68(4), pp. 880-883					
		W.A. LEA, et al. "Prosodic aids to speech recognition", in Lea, W.A. (ed.), Trends in Speech Recognition, Prentice-Hall, New Jersey, pp. 166-205					
		D. J. BROAD, "Format estimation by linear transformation of the LPC cepstrum", J. Acoust. Soc. Am. 86 (6), pp. 2013-2017					
		P. MOKHTARI, et al. "Some articulatory correlates of emotion variability in speech: a preliminary study on spoken Japanese vowels", in Proc. Int. Conf. on Speech Process., Taejon, Korea, 2001, pp. 431-436					
		G.E. PETERSON, et al. "A physiological theory of phonetics", J. Speech Hear. Res. 9, 1966, pp. 6-67					
		A. IIDA, et al. "Acoustic nature and perceptual testing of corpora of emotional speech", in Proc. 6th Int. Conf. on Spoken Lang. Process., 1998, pp. 1659-1662					
		P. MOKHTARI, et al. "Automatic Detection of Acoustic Centres of Reliability for Tagging Paralinguistic Information in Expressive Speech", in Proc. 3rd Int. Conf. on Language Resources and Evaluation, Las Palmas, Canary Islands, Spain, 2002, pp. 2016-2018					
		A. BAYYA, et al. "Towards feature-based speech metric", in Proc. IEEE Int. Conf. on Acoust., Speech, and Sig. Process., 1990, pp. 781-784					
		J. HÖGBERG "Prediction of format frequencies from linear combinations of filterbank and cepstral coefficients", KTH-STL-QPSR, Royal Inst. Of Tech. Stockholm, Sweden, 1997, pp. 41-49					
		W. A. LEA, et al. "Algorithms for acoustic prosodic analysis", in Proc. IEEE Int. Conf. on Acoust., Speech, and Sig. Process., 1984, 42.7.1-42.7.4					
		P. MOKHTARI, et al. "Perceptual validation of a voice quality parameter AQ automatically measured in acoustic islands of reliability", in Proc. Meeting of the Acoust. Soc. Of Japan, Kanagawa Univ., Japan, Paper 1-P-26, 2002a, pp. 401-402					
EXAMINER				DATE CONSIDERED			

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.